

JESUSITA TRAIL**Prepared by Ray Ford & Paul Herning/December 18, 2006****AGENDA ITEM 2
ATTACHMENT 3**

#	Feature Type	Dist 1	Dist 2	Lat	Long	Elev	Grade	Notes
1	Trailhead Tunnel Gate	0	0 (5.3)					
2	Bridge	3366	.64 (4.66)					West Fork drainage
3	Powerline Intersectiion	3940	.75 (4.55)					Potential location for trail kiosk and info center
4	Tunnel trailhead	4287						Leads to crest
5	Trailhead to Inspiration Pt	4526	.81 (4.49)					Edison road turns and heads north—trail to Inspiration Point begins here.
6	Switchback down to creek	5169					24% in- 27% down	Major fix needed—widen and extend switchback-- add rock steps leading down to creek. See photo.
7	Creek crossing	5280						Off-trail routes lead up to Seven Falls and route to Cathedral Peak
8	Dip in trail	5516						Reinforce lower tread with retaining wall. Lower dip so water flows over retaining wall and not down the trail.
9	Side drainage	5573						Remove brush below crossing and boulders to improve flow—add rock reinforcement on the downtrail side of the trail to keep water in channel.
10	Upslope slide	5787					23%	Widen tread to 3' wide and cut back the backslpoe to reduce future slides.
11	Minor drainage	5827						Reinforce lower part of crossing to stop potential for downslope erosion.
12	Boulders w/ narrow channel	5916						Large boulder on both sides creates very narrow section of trail with rocks on both sides. Widen opening by chipping with hammer drill and if needed—blast w/Magnum buster. See photo.
13	Re-route	5994- 6037						Short section to move trail 8' to outside to go around boulders for 40 feet.
14	Gullied section	6192		28.369	42.507			200' of gullied trail. Add "s" turns and fill in gully to add rolling grade dips every 40 yards to move water off of the trail
15	Add Dips	6200- 6797		28.395	42.611			600' of good trail—add dips every 25-40 yards for erosion control. At the 6797 foot point there is a rock ledge. Needs a retaining wall on outside edge

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								of the trail and ledge needs to be chipped to provide better tread.
16	Steep grade	6881						Steep grade for 60 feet with rock ledge. Ledge needs chipping and possibly blasting to widen and improve the tread.
17	Major set of switchbacks	6967-7131		28.403	42.621		28-34% above the switchbacks	This switchback has needed regular repairs. Tread needs to be widened, reinforcement added on the outside edges of the upper and lower parts of the switchback and tread lowered on the uphill section leading down to the upper part of the switchback to lessen the grade.
18	Oak tree obstacle	7225						One large side branch of the tree needs to be removed for equestrian passage. See photo.
19	Switchback	7275					25%	Widen tread and improve the turn.
20	Switchback	7354						Widen tread and improve the turn.
21	Corner	7456						Has steep (2') drop around corner—re-route trail around large boulder—see #22 for details.
22	Re-route	7456-7599		28.389	42.697		25%	Trail drops steeply downhill then turns sharply left and off rock ledge. Reroute the trail approximately 20' to right to widen the curve of the trail and go around the dropoff at the ledge.
23	Major boulder obstruction	7653-7710						60' section with numerous 4-5 foot diameter boulders that make it difficult to get through. Will need to blast large rock in middle
24	Switchback	7819					18%	Widen tread, extend the elbow of the switchback and widen it for easier turns by mtn bikes and equestrians. Remove wood and pipe from previous work as it is dangerous.
25	Switchback	7902					18%	Widen tread, extend the elbow of the switchback and widen it for easier turns by mtn bikes and equestrians. Remove wood and pipe from previous work as it is dangerous.
26	Switchback	8104					18%	Widen tread, extend the elbow of the switchback and widen it for easier turns by mtn bikes and equestrians. Remove wood and pipe from previous work as it is dangerous.
27	Dips	8104-8479						400' of tread to add rolling grade dips every 25-40 yards.

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28	Re-routes	8479-8592						Very steep gullied section of the trail for 200 feet. Needs rerouting off the trail on the left about 15' to widen the turn and get water off of the trail.
29	Edison Road	9108	1.73 (3.57)					From here back down to the 8600' point the trail drops straight downhill at 16-18% grade. Needs dips and curves to get water off the trail
30	Inspiration Pt.	9354	1.77 (3.53)					High point on trail. Extremely steep, rocky and gullied for next 2000' down to Edison Road. Requires major fix to solve the many issues. Probably not worth the effort as most people use the road.
31	Edison Rd	10,473						Back on Edison Road on San Roque side of the trail
32	Trail intersection	11,791	2.23 (3.07)					Leave Edison Road and continue down the trail. Has 300' of somewhat gullied trail. Fill gullies and add dips.
33	Switchback 1 & rock ledge	12250						Major ledge crosses the trail right at the turn in the switchback and creates a 3 foot dropoff. Ledge rock needs to be chipped to widen and extend the end of the switchback 10' to lessen the grade on the up and down slopes of the switchback and make it safe for mtn bike and equestrian use. See phto.
34	Switchback 2	12558						Widen tread and extend elbow.
35	Switchback 3	12760						Widen tread and extend elbow.
36	Switchback 4	12969						Widen tread and extend elbow.
37	Switchback 5	13172						Widen tread and extend elbow.
38	Switchback 6	13381						Widen tread and extend elbow.
39	Drainage/ corner	13687-13765					22%	Major boulder obstacles make safe passage difficult for mtn bikes and equestrians. Use rock to build outside retaining wall to widen the tread.
40	Slump	13805-13901						100' section where overhead brush has forced users to the outside edge. As a result the outside has slumped creating poor tread that is very dangerous. Widen tread, add dips and eliminate overhead brush.
41	Narrow tread	13901-14649						Similar to #40 for 750 feet but not as pronounced. However, eyebrow-type slumps are developing and

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								the tread is becoming very narrow with steep dropoffs. Brush, add dips and widen.
42	Corner & Reroute	14689						Trail drops steeply downhill (25%) and sharply around a blind corner. Reroute trail on left 10' to make a much wider sweeping turn to lessen the grade and eliminate the blind spot.
43	Switchback 7	14988						All switchbacks (#7-14) need some widening and improvement of the tread. Overhead brushing needs to be done to keep users from walking/riding the outside edge. Outside edge berms need to be removed to eliminate gullies and dips added along this entire section (980 feet from Switchback #7 to #14)
44	Switchback 8	15261						See #43
45	Switchback 9	15366						See #43
46	Switchback 10	15473						See #43
47	Switchback 11	15678						See #43
48	Switchback 12	15742						See #43
49	Switchback 13	15861						See #43
50	Switchback 14	15972						Large stump above this switchback needs to be removed.
51	Road crossing to water tunnel	16117	3.05 (2.25)					Private property on both sides. Keep out.
52	Switchback 15	16212						Added 7/2006 for erosion control. Monitor for erosion issues and enhance banking. Improve the dips above and add one below.
53	Switchback 16	16260						Added 7/2006 for erosion control. Tight turn. Widen and improve banking.
54	Switchback 17	16320						Added 7/2006 for erosion control. Add dip above the switchback and improve the banking.
55	Chicanes- 6 "s" turns	16320-16591						Added 7/2006 for erosion control. 300' of continuous short curving turns at 18% grade. Issues with mtn bikes carving "v" grooves into each of them. More banking needed.
56	Upper end of closed reroute	17239						Start of steep drop down through two sections, upper@32% and lower@41%. Needs reroute to

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								make safe for equestrian use. Land owner requested we close a reroute done to avoid these dropoffs and that has been done. Every effort should be made to encourage the landowner to change his mind.
57	Lower end of closed reroute	17362						See comments re #56
58	Creek crossing	17709					26%	Next 60 feet of trail needs rebuilding as it is severely gullied and very steep.
59	Potential reroute	18083-18161					32%	Initially planned to avoid 32% grade section—requires excavator to move the amount of material needed for the reroute. It may not be possible to get the excavator to this point from below. Not practical to reroute by hand.
60	Washout/steep drop	18565-18695						Major drop caused by large oak falling into creek in 2005. Needs reroute around but would require approval by land owner of a 400-500' reroute. Major issues here with mtn bikers using large boulder as a jump. Assuming we cannot do a reroute, then rebuild this steep section to minimize erosion, keep side creek flowing across the trail and slow mountain bikes down.
61	Potential reroute	18954						Very short reroute 50 feet past creek to route trail around outside of a large boulder. This would allow the water to flow off to the right (west) rather than straight down the trail.
62	Creek crossing	19006						Large amount of blasting done here to re-open creek after 2005 floods jammed it fullor 3-5 foot boulders. Creekbed still needs to be dug down quite a bit to keep flow in the channel as much as possible as it often flows off to the left and down the trail.
63	Trail marker	19613						1000 foot section of gentle downhill to the next creek crossing. This section needs large boulders added in 5-6 places to slow mountain bike travel.
64	Creek crossing and road	20013	3.79 (1.51)					Improve the tread on the east side of the creek as it comes out of the creek and starts up the canyon.
65	Gate, water fountain &	20518						Gate entry to Robin Gauss property. This also more or less marks the end of the Forest Service trail

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	bench							easement and beginning of county and city easements down to Cater Filtration Plant.
66	Lower trailhead	21980	4.16 (1.14)					Start of trail at driveway entry to Moreno Ranch—major gully down into the creek needs repair.
67	Crossing-West Fork creek	21031						Remove roots and some boulders on far side of this crossing for easier equestrian passage.
68	Boulder dropoff	21313						Blast the large boulder in the trail that creates a 30 inch high dropoff that is almost impossible for equestrians
69	Narrow slot between alders	21382						Route trail slightly west and around so it goes around the alders.
70	Creek crossing	21480						
71	Creek crossing	21730						
72	Reroute	21730-21835						For a 100 foot distance, move trail away from the creek about 5 feet as it is right on the bank and is both dangerous and causes bank erosion.
73	Steep drop down to creek	22165-22213				34%		Move boulders, add steps to improve for all users
74	Climb up to upper meadow	22527-22800				30%		Rebuilt tread from lower end up to the start of the meadow to eliminate erosion and improve the grade.
75	Start upper meadow	22829						575 feet of trail through the meadow. Needs the channels filled in and tread rebuilt to add dips and other erosion control features.
76	End upper meadow	23396						
77	Start lower meadow	23681						420 feet of trail through the meadow. Needs the channels filled in and tread rebuilt to add dips and other erosion control features.
78	End lower meadow	24101					27%	Rebuild the tread on the side (west) of the roadway as it leaves the canyon floor and heads up to the lower meadow.
79	Arroyo Burro intersection	24366						Add new metal trail sign.
80	Creek crossing	24800						Extend old trail along east side of the creek down to the next crossing (#81) to re-establish trail and avoid the double set of crossings. This also allows movement of equipment w/o crossing the creek

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								twice.
81	Creek crossing	25060						Look at add at least one major dip about 60' down towards the picnic table to channel water off of the trail so it doesn't flow down to the table.
82	Picnic table	25512						Need for pinning in place to keep it from being moved??
83	Downslope slump	25722						Widen tread and lower. Add retaining wall on lower side of the trail and look at potential for slowing ware coming off the upper slopes/drainage. See photo.
84	Start of major slide area	26733						Begin slide project from the north end with the objective of lowering the trail approximately 8' from its current highest elevation and widen to make safe for equestrian/mtn bike use. Bring excavator in from Arroyo Burro trail.
85	End of major slide area	26900						Continue lower trail to this point—a distance of about 225 feet. Will take about 4 days. In the meantime, post reroute up over the knoll as the slide trail will be impassable until the work is completed. Major issues: sign posting, notification of landowner(?), potential for dirt into the creek. City approval(?)
86	Steep drop from slide down to flats	26900-26966						End of major slide project work to lower the trail and widen. Work from other side towards the Cater trailhead as it is the safest. See #85.
87	Stevens Park turnoff	27500						Need erosion control work at this intersection.
88	Trailhead at Cater Filtration	27960	5.3 (0)					End (beginning) of trail